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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Mark Stoneham

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EXAMINER

SONG, DAEHO D

ART UNIT

PAPER NUMBER

2175

NOTIFICATION DATE

DELIVERY MODE

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ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary	Application No. 10/551,806	Applicant(s) STONEHAM ET AL.	
	Examiner DAEHO D. SONG	Art Unit 2175	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 February 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-67 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-67 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 February 2007 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>9/30/05</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This is the initial Office Action based on the application number 10551806, filed February 28, 2007. Claims 1-67, as originally filed, are currently pending and have been considered below. Claims 1, 26, 39, and 56 are the independent claims.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1-11, 15-24, 26-37 and 39-67 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Holtz et al. (hereinafter Holtz): U.S. Patent Application Pub. No. 2002/0175931.

Holtz expressly teaches:

*Claim 1. A broadcast control apparatus for visual data, the apparatus comprising:
a touch screen display panel operable to receive and display visual data simultaneously*

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in real time from a plurality of visual sources (figs. 2A-B; [0031][0032]: a touch screen for receiving and displaying video production in real time from a plurality of video sources); and

a touch screen graphical panel for the retrieval of control functions from a control function register; whereby visual data from at least one of the visual sources is selectable for use by finger pressure on the associated portion of the touch screen display panel and the selected data is modifiable in accordance with a retrieved control function (figs. 2A-B; [0033][0040][0094]-[0102]: a touch screen for retrieving control functions by means of user's selection on function icons to modify the content of video production).

Claim 2. The broadcast control apparatus according to claim 1, where the control function is a digital video effect or an audio effect (figs. 4 & 9).

Claim 3. The broadcast control apparatus according to claim 1, where the retrieved control function is able to be effected by finger pressure on an associated portion of the touch screen display panel (figs. 2A-B; [0031]).

Claim 4. The broadcast control apparatus according to claim 1, further comprising a programmable panel having a plurality of programmable keys, each one of which is able to be programmed to retrieve a control function (figs. 2A-B; [0033]).

Claim 5. The broadcast control apparatus according to claim 4, Where the programmable panel is positioned proximate the touch screen display panel (fig. 1).

Claim 6. The broadcast control apparatus according to claim 4, where the programmable panel is incorporated into the touch screen display panel (fig. 1).

Claim 7. The broadcast control apparatus according to claim 4, further comprising a control panel to enable switching between visual sources (fig. 1; [0036]).

Claim 8. The broadcast control apparatus according to claim 7, where the programmable panel is incorporated into the control panel (fig. 1; [0037]-[0040] [0090]-[0093]).

Claim 9. The broadcast control apparatus according to claim 1, where the control panel is a customized vision switching panel (figs. 26 & 27; [0168]-[0171]).

Claim 10. The broadcast control apparatus according to claim 1, where the selected data is modifiable by finger pressure on a portion of the touch screen graphical panel that is associated with the control function (figs. 2A-B).

Claim 11. The broadcast control apparatus according to claim 1, where control functions are executable in real time ([0033][0040]).

Claim 15. The broadcast control apparatus according to claim 4, further comprising a display module programmable to store a plurality of screen layout configurations (figs. 5 & 5A; [0124]-[0131]).

Claim 16. The broadcast control apparatus according to claim 15, where the configuration of all the visual data from respective visual sources on the touch screen display panel is resizable depending on the number of visual sources operating at any one time (figs. 2A & 26).

Claim 17. The broadcast control apparatus according to claim 15, where a plurality of screen configurations are programmable into one or more of the programmable keys (figs. 2A & 26).

Claim 18. The broadcast control apparatus according to claim 16, where each area of the screen configuration associated with a visual source is further configurable with a personalized symbol or descriptor identifier to identify the source ([0043]).

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Claim 19. The broadcast control apparatus according to claim 1, where a transition between visual data from a first visual source and visual data from a second visual source is effected by applying finger pressure on the associated portion of the touch screen display panel that represents the first source and dragging that source to a different portion of the touch screen display panel associated with the second source (fig. 11; [0180]-[0185]).

Claim 20. The broadcast control apparatus according to claim 1, further comprising a second touch screen display panel operable to receive and display further visual data or to view selected visual data for output (figs. 1 & 2B; [0094]).

Claim 21. The broadcast control apparatus according to claim 1, where visual sources comprise one or more of video cameras, videotape recorders, disk servers, computer generated sources, remote feeds, or the like (fig. 1; [0098]).

Claim 22. The broadcast control apparatus according to claim 4, where the apparatus is operational in a set up mode and an operational mode (fig. 2A).

Claim 23. The broadcast control apparatus according to claim 22, where pre-programming of digital video effects occurs in the set up mode (fig. 9).

Claim 24. The broadcast control apparatus according to claim 19, where in the

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operation mode selection of sources and transitions between sources are performed (figs. 9A-C).

Claim 26. A broadcast control apparatus for the recording and replay of visual data, the apparatus comprising:

a touch screen display panel operable to simultaneously playback more than one stream of visual data from a storage unit, the visual data sourced from a plurality of visual sources (fig. 5; [0124]-[0131]: a touch screen to re-play video sources by means of RPD Controls system);

a touch screen graphical panel for the retrieval of control functions from a control function register (fig. 5; [0124]-[0131]: a touch screen with GUI retrieving control functions); and

a control panel in communication with the touch screen panels, the control panel including a plurality of programmable keys, each one of which is able to be programmed to retrieve a control function; whereby playback of visual data from the storage unit is able to be modified in accordance with a retrieved control function (figs. 5 & 5A; [0124]-[0131]: the control panel with a plurality of programmable keys to modify the video data according to the control functions).

Claim 27. The apparatus according to claim 26, where the retrieved control function is able to be effected by finger pressure on an associated portion of the touch screen

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display panel that is associated with the control function (figs. 2A-B; [0031]).

Claim 28. The apparatus according to claim 26, where respective streams of visual data from the storage unit are configurable on the touch screen display panel and are resizable depending on the number of streams of visual data displayed (figs. 2A & 26).

Claim 29. The apparatus according to claim 28, where at least one key is programmable with a plurality of different screen configurations (figs. 2A & 26).

Claim 30. The apparatus according claim 26, where at least one key is programmable to create a clip from a stream of replayed visual data ([0229]).

Claim 31. The apparatus according to claim 30, where at least one key is programmable to text tag the clip of visual data (fig. 7; [0140]-[0143]).

Claim 32. The apparatus according to claim 26, where the touch screen graphical panel is operable to build playlists and sequences ([0038][0042]).

Claim 33. The apparatus according to claim 32, where a sequence is built by effecting a transition between visual data from a first visual source and .visual data from a second visual source, whereby finger pressure is applied on that associated portion of the touch screen display panel that represents the first source and dragging that source to a

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different portion of the touch screen display panel associated with the second source (fig. 11; [0180]-[0185]).

Claim 34. The apparatus according to claim 33, where the transition includes activating a key programmed with a text tag and associating the text tag with the data from the second source (figs. 7 & 7A).

Claim 35. The apparatus according to claim 26, where at least one key is programmable for rewinding all of the visual source data simultaneously (fig. 5).

Claim 36. The apparatus according to claim 26, where the control panel further includes one or more of a speed control section for at least controlling the rate of play of a stream of visual data, a time code section for displaying the duration, of a stream of visual data, a cueing section for the marking of, and searching for cues and for the navigation within the storage unit, and a slow-motion section (fig. 5 & 5A; [124]-[0131]).

Claim 37. The apparatus according to claim 26, further comprising a second touch screen display panel to view visual data for output (fig. 2B).

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Claim 39:

The subject matter recited in Claim 39 corresponds to the subject matter recited in Claims 1 and 26, cooperatively. Thus Holtz discloses every limitation of Claim 39, as indicated in the above rejections for Claims 1 and 26.

Claims 40-52:

The subject matter recited in Claims 40-52 corresponds to the subject matter recited in Claims 4-7, 11, 16, 10, 15-20, respectively. Thus Holtz discloses every limitation of Claims 40-52, as indicated in the above rejections for Claims 4-7, 10-11, 15-16 and 17-20.

Claim 53. The system according to claim 39, further comprising an audio mixing panel to combine an audio source with selected modified data edited with output from the second apparatus for transmission (figs. 4 & 4A-C).

Claim 54. The system according to claim 39, where the second apparatus is further operable to edit its output with selected modified data from the first apparatus to create a sequence for transmission (figs. 2A & 10-11; [0038]-[0040] [0173]-[0185]).

Claim 55. The system according to claim 54, where the sequence is made available to the operator of the first apparatus (figs. 10-19).

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Claims 56-65:

The subject matter recited in Claims 56-65 corresponds to the subject matter recited in Claims 1, 26, 32, 17, 23-24, 18, 15-16 and 19, respectively. Thus Holtz discloses every limitation of Claims 56-65, as indicated in the above rejections for Claims 1, 26, 32, 17, 23-24, 18, 15-16 and 19.

Claim 66. The method according to claim 56, whereby the first operator and second operator access the same control function register (fig. 1).

Claim 67. The method according to claim 56, whereby created sequences are transmitted live or stored for broadcast at a later date ([0030][0032]).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Holtz in view of Share et al. (hereinafter Share): U.S. Patent No. 5,477,024.

As indicated in the above rejection, Holtz discloses every limitation of Claim 4.

Holtz fails to expressly disclose various colors on back-lit for function keys.

Share expressly teaches those various colors on back-lit for function keys, and specific disclosure of particular claims are as following:

Share expressly teaches:

Claim 12. The broadcast control apparatus according to claim 4, where a programmable key loaded with a control function appears back-lit with a first color indicating to an operator that the key is ready for operation (col. 2 lines 45-67).

Claim 13. The broadcast control apparatus according to claim 12, where keys which have yet to be loaded and which are therefore available for programming appear backlit with a second color (col. 2 lines 45-67).

Claim 14. The broadcast control apparatus according to claim 12, Where keys which are in operation appear backlit with a third color (col. 2 lines 45-67).

Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the disclosure of Holtz to incorporate with various color appearances for back-lit on control panels, as taught by Share, in order to

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provide different nighttime color per key or button utilized on control panels (see col. 1 lines 20-58).

3. Claims 25 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Holtz in view of Vye: U.S. Patent No. 4,720,805.

Claim 25:

As indicated in the above rejection, Holtz discloses every limitation of claim 1.

Holtz fails to expressly disclose:

touch screen display panel is mounted on a motorized arm to enable the distance between the or each display panel and an operator to be varied.

Vye expressly teaches:

touch screen display panel is mounted on a motorized arm to enable the distance between the or each display panel and an operator to be varied (col. 4 lines 20-28; col. 5 lines 57-67).

Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system, disclosed in Holtz, to include:

touch screen display panel is mounted on a motorized arm to enable the distance between the or each display panel and an operator to be varied, for the purpose of

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permitting of the direct digital input to the computer program emanating from the skilled and artistic movements of his hand with his finger on the digital touch-screen, as taught in Vye (see col. 2 lines 26-55).

Claim 38:

The subject matter recited in Claim 38 corresponds to the subject matter recited in Claim 25. Thus Holtz, in view of Vye, discloses every limitation of Claim 38, as indicated in the above rejections for Claim 25.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAEHO D. SONG whose telephone number is (571)272-7524. The examiner can normally be reached on Mon-Fri 7:30-5:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Bashore can be reached on 5712724088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Daeho D Song/

Examiner, Art Unit 2175

/William L. Bashore/
Supervisory Patent Examiner, Art Unit 2175